

**KEN Applications Subcommittee
Interoperability Work Group
July 6, 10:00 AM – 12:30 PM
CPE Conference Room G**

PRESENT: Bo Lowrey, Cary Peterson, Rick Chlopan, Lee Muncy, Enid Wohlstein, Glenn Thomas, Scott Smith, Arne Almquist, Miko Pattie. Guests: Betsy Hughes, Virginia McClure

Handouts: 1. Shibboleth: Web Single Sign-on and Federating Software (Developed by the Internet2 Middleware Initiative – <http://shibboleth.internet2.edu>)
2. Kentucky P-20 Systems Overview (DRAFT)

Categories of P-20 Systems:

1. What systems do we need to work on? We only want to include high-impact teaching and learning systems. This matrix is not an inventory of all P-20 systems. We need to focus on critical systems and low hanging fruit.
2. In reviewing the draft matrix, Bo stated that there should be only 3 categories – student, teacher, and administrative.
3. Glen stressed the issue of governance being critical in interoperability. Technology is easy while policies are not. Sometimes there might not be solutions. As Chair of the statewide Enterprise Standards Committee, Glenn can provide this group good reference framework.
4. Data ownership issue – How this affects our category?
5. Content versus container issue – Enid reminded the group of the importance of this distinction that might have bearings on interoperability..
6. Rick stated that this group might become a standing body in order to keep up with emerging standards and serve in an advisory role in RFP process. One of the low hanging fruit is a standard language for interoperability to be used for RFPs. Glen thought that it might be possible to incorporate this into Enterprise Standards.

Overview of Shibboleth – Steven Carmody, Brown University

1. Steven gave a PowerPoint presentation via Elluminate on –
 - I2 MACE (Middleware Architecture Committee for Education) identity management model – Identify stakeholders, source systems, service providers
 - What is Shibboleth? – Attribute-based single sign-on with identity provider's IdM in place; federation with legal basis; can be intra-campus, federation. bilateral
 - Deployment – Intra-campus SSO, intra-campus delivery of attributes, federated operation, inter-federation operation, operating a "virtual" IdP
 - Who uses Shib? – 12-14 European countries in various scales of Shib implementation (UK is largest; becta.org.uk for K12); Univ. of Texas's 28 campuses, UC Trust, Texas Digital Library (DSpace for LOR), Univ. of Maryland's 16 campuses, OhioLiink, Rhode Island's RINET, Google Apps for Education, TurnItIn, Blackboard, Elsevier, EBSCO, JSTOR, ExLibris – SFX, etc.
 - Kentucky's deployment – Steven advised us to look at existing relationships for pilots, such as KYVL's Voyager system or a campus/school district that does not have SSO. There is overhead in running a federation and PKI skill is required. Lee suggested kentucky.gov as an ASP for this. Steven suggested to use testshib.org test site for deployment. Hardware requirement is minimum – 2 moderate-size Dell servers (one for back-up). Software is free with Apache license. Consulting services are available and so are support services from vendors.
2. The group agreed to make recommendations for possible pilot sites – KYVL and a school district or Institution without SSO for intra-campus.

Next Meeting: July 13, Friday, 10:00 – 12:00 in CPE Conference Room E
Follow-up: Revise the P-20 system overview